

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A manual input device comprising:
 - a knob;
 - a feeling providing device which has at least two kinds of feeling patterns;

and

an actuator which positions at least one of a ball [[and]] or a pin in contact with the feeling providing device,

wherein the feeling providing device comprises one of a disc or a cylinder which bears plural feeling patterns (rows) and is fixed to a control shaft to be manipulated by the knob; the at least one of the ball or the pin contacts the one of the disc or the cylinder and changes an operation feeling given to the knob, and

wherein the actuator linearly reciprocates the at least one of the ball or the pin in a direction where the plural feeling patterns are arranged.

2. – 5. (Cancelled)

6. (Currently amended) A manual input device comprising:

a knob;

a feeling providing device which has at least two kinds of feeling patterns;

and

an actuator which positions at least one of a ball or a pin in contact with the feeling providing device~~The manual input device according to Claim 1,~~

wherein the actuator positions at least one of multiple balls [[and]] or pins and the feeling providing device comprises one of a disc [[and]] or a cylinder which has a single feeling pattern (row) and is fixed to a control shaft to be manipulated by the knob; at least one of the [[-]]multiple balls [[and]] or pins contacts the one of the disc [[and]] or the cylinder, and

wherein the actuator linearly reciprocates a selected one of the one of the multiple [[A]] balls [[and]] or pins in a direction where the selected one of the one of the multiple balls [[and]] or pins selectively engages with the feeling pattern.

7. (Currently amended) A manual input device comprising:

a knob;

a feeling providing device which has at least two kinds of feeling patterns;

and

an actuator which positions at least one of a ball or a pin in contact with the
feeling providing device, ~~The manual input device according to Claim 1,~~

wherein the feeling providing device comprises a rotary polyhedron which bears plural feeling patterns (rows) arranged in parallel along an axial direction of an outer surface, and

wherein the actuator reciprocally rotates the rotary polyhedron around an axis of the rotary polyhedron, with one end of a control shaft to be manipulated by the knob being in contact with the outer surface of the rotary polyhedron bearing the feeling patterns.

8. (Previously presented) The manual input device according to claim 1, wherein the actuator is controlled according to a control signal generated based on an external signal from an external detector connected at least with the external device.

9. (Original) The manual input device according to Claim 8, wherein the knob is manipulated by linear movement.

10. (Original) The manual input device according to Claim 8, wherein the knob is manipulated by rotation.

11. (Original) The manual input device according to Claim 8, wherein the knob is manipulated by rotation in at least two directions.

12. (Currently amended) [[-]]The manual input device according to Claim 8,
wherein the feeling providing device comprises one of a disc [[and]] or a cylinder which bears plural feeling patterns (rows) and is fixed to a control shaft to be manipulated by the knob; and one of a ball [[and]] or a pin contacts the one of the disc [[and]] the cylinder, and

wherein the actuator linearly reciprocates the one of the ball [[and]] or the pin in a direction where the plural feeling patterns are arranged.

13. (Currently amended) The manual input device according to Claim 8,
wherein the feeling providing device comprises one of a disc [[and]] or a cylinder which bears a single feeling pattern (row) and is fixed to a control shaft to be manipulated by the knob; and one of at least two balls [[and]]-or pins contacts the one of the disc [[and]] or cylinder, and

wherein the actuator linearly reciprocates a selected one of the one of the at least two balls [[and]] or pins in a direction where the selected one of the one of the at least two balls [[and]] or pins selectively engages with the feeling pattern.

14. (Previously presented) The manual input device according to Claim 8,
wherein the feeling providing device comprises a rotary polyhedron which bears plural feeling patterns (rows) arranged in parallel along an axial direction of an outer surface, and

wherein the actuator reciprocally rotates the rotary polyhedron around an axis of the rotary polyhedron, with one end of a control shaft to be manipulated by the knob being in contact with the outer surface of the rotary polyhedron bearing the feeling patterns.

15. (Currently amended) A manual input device comprising:
a knob;
a feeling providing device which has at least two kinds of feeling patterns;
and

an actuator which positions at least one of a ball or a pin in contact with the feeling providing device; ~~The manual input device according to claim 1, having:~~

a control section for the actuator;
a detector which detects an operating condition of the knob; and
an input/output section which exchanges signals with an external device controlled by the knob,

wherein an external signal from an external detector connected at least with the external device is inputted into the control section through the input/output section to generate a control signal for the actuator to match at least the external signal, and wherein the actuator is controlled according to the control signal.

16. (Currently amended) A manual input device comprising:

a knob;
a feeling providing device which has at least two kinds of feeling patterns;
and
an actuator which positions at least one of a ball or a pin in contact with the feeling providing device; ~~The manual input device according to claim 1, having~~

a control section for the actuator;
a detector which detects an operating condition of the knob; and
an input/output section which exchanges signals with an external device controlled by the knob,

wherein both a detection signal at least from the detector and an external signal from an external detector connected with the external device are inputted into the external device to generate control information for the actuator to match the detection signal and the external signal, wherein the control information is picked up by the control section through the input/output section to generate a control signal for the actuator to match the control information, and wherein the actuator is controlled according to the control signal.

17. (Currently amended) A manual input device comprising:

a knob;

a feeling providing device which has at least two kinds of feeling patterns;
and

an actuator which positions at least one of a ball or a pin in contact with the
feeling providing device; The manual input device according to claim 1, having
a detector which detects an operating condition of the knob; and
an input/output section which exchanges signals with an external device
controlled by the knob,

wherein both a detection signal at least from the detector and an external
signal from an external detector connected with the external device are inputted into the
external device to generate a control signal for the actuator to match the detection
signal and the external signal, and wherein the actuator is controlled according to the
control signal.

18. – 19. (Cancelled)